

## CLAIMS

What is claimed is:

- 5           1.     A latch comprising:  
a housing;  
a pawl pivotally supported by said housing, said pawl being movable between a  
latched position and an unlatched position;  
biasing means biasing said pawl toward said unlatched position; and  
10           a locking member rotationally supported relative to said housing, said locking  
member being rotationally movable about an axis of rotation between an open position and a  
locked position, said locking member interfering with movement of said pawl such that said  
pawl is maintained in said latched position when said pawl is in said latched position and  
said locking member is in said locked position, said locking member allowing said pawl to  
15           move to said unlatched position when said locking member is in said open position.
2.     The latch according to claim 1, further comprising an electric motor supported  
in stationary relationship relative to said housing, said electric motor being operationally  
linked to said locking member to selectively cause rotation of said locking member about  
20           said axis of rotation.
3.     The latch according to claim 2, further comprising a lockplug supported for  
selective rotation relative to said housing, said lockplug being operationally linked to said  
locking member to selectively cause rotation of said locking member about said axis of  
25           rotation.
4.     The latch according to claim 3, further comprising a lockplug member adapted  
for receiving said lockplug.

5. The latch according to claim 4, further comprising a second biasing means biasing said lockplug and said lockplug member.

6. The latch according to claim 5, wherein said second biasing means is a  
5 spring.

7. The latch according to claim 4, wherein said lockplug member includes a biasing retaining tab protruding outward from one side of said lockplug member.

10 8. The latch according to claim 3, wherein said lockplug is biased towards a central position.

9. The latch according to claim 3, wherein said lockplug includes a key slot.

15 10. The latch according to claim 2, further comprising a motor housing adapted for supporting said motor.

11. The latch according to claim 10, wherein said locking member is pivotally secured between said housing and said motor housing.

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12. The latch according to claim 2, further comprising at least one gearbox interposed between said locking member and said motor, said gearbox being adapted for engaging with said locking member and said motor.

25 13. The latch according to claim 2, wherein said motor is a DC motor.

14. The latch according to claim 2, further comprising at least one switch, said switch including a cantilever wherein said cantilever makes contact with said locking

member and moves about a depressed position and a released position as said locking member rotatably moves respectively about said open position and said locked position.

15. The latch according to claim 14, wherein said cantilever terminates in a roller  
5 and said roller makes contact with said locking member.

16. The latch according to claim 14, wherein said at least one switch further  
includes at least one contact about said cantilever such that depressing said cantilever  
closes an electrical circuit and releasing said cantilever opens the circuit.

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17. The latch according to claim 14, wherein said at least one switch is a pair of  
switches, each of said pair of switches having a cantilever such that said cantilever of one of  
said pair of switches is released when said locking member is in said locked position and  
said cantilever of the other of said pair of switches is released when said locking member is  
15 in said open position.

18. The latch according to claim 14, wherein said housing includes at least one  
riser positioned for retaining said at least one switch.

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19. The latch according to claim 1, further comprising a lockplug supported for  
selective rotation relative to said housing, said lockplug being operationally linked to said  
locking member to selectively cause rotation of said locking member about said axis of  
rotation.

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20. The latch according to claim 19, further comprising a lockplug member  
adapted for receiving said lockplug.

21. The latch according to claim 20, further comprising a second biasing means biasing said lockplug and said lockplug member.

22. The latch according to claim 21, wherein said second biasing means is a  
5 spring.

23. The latch according to claim 20, wherein said lockplug member includes a biasing retaining tab protruding outward from one side of said lockplug member.

10 24. The latch according to claim 19, wherein said lockplug is biased towards a central position.

25. The latch according to claim 19, wherein said lockplug includes a key slot.

15 26. The latch according to claim 1, wherein said pawl is biased towards said unlatched position.

27. The latch according to claim 1, wherein said locking member is biased away from said open position.

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28. The latch according to claim 1, wherein said biasing means is a spring.

29. The latch according to claim 1, further comprising at least one switch, said switch including a cantilever wherein said cantilever makes contact with said locking  
25 member and moves about a depressed position and a released position as said locking member rotatably moves about said open position and said locked position.

30. The latch according to claim 29, wherein said cantilever terminates in a roller and said roller makes contact with said locking member.

31. The latch according to claim 29, wherein said housing includes at least one  
5 riser positioned for retaining said at least one switch.

32. The latch according to claim 1, wherein said pawl includes a locking member  
engaging tooth, a first arm, a second arm, and a slot defined between said arms, said arms  
are generally parallel and opposite said locking member engaging tooth, said slot is  
10 dimensioned and configured to receive a keeper.

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